

PCT09

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/914,831

DATE: 09/20/2001
 TIME: 12:46:02

Input Set : A:\Sequence list.txt
 Output Set: N:\CRF3\09202001\I914831.raw

ENTERED

3 <110> APPLICANT: Merck Patent GmbH
 5 <120> TITLE OF INVENTION: Histidine Protein Phosphatase
 7 <130> FILE REFERENCE: Histidine Phosphatase Protein
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/914,831
 C--> 10 <141> CURRENT FILING DATE: 2001-09-04
 12 <160> NUMBER OF SEQ ID NOS: 11
 14 <170> SOFTWARE: PatentIn Ver. 2.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 375
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 21 <220> FEATURE:
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (1)-(375)
 24 <223> OTHER INFORMATION: Human histidine protein phosphatase
 26 <400> SEQUENCE: 1
 27 atg gcg gtg gcg gac ctc gct ctc att cct gat gtg gac atc gac tcc 48
 28 Met Ala Val Ala Asp Leu Ala Leu Ile Pro Asp Val Asp Ile Asp Ser
 29 1 5 10 15
 31 gac ggc gtc ttc aag tat gtg ctg atc cga gtc cac tcg gct ccc cgc 96
 32 Asp Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ser Ala Pro Arg
 33 20 25 30
 35 tcc ggg gct ccg gct gca gag agc aag gag atc gtg cgc ggc tac aag 144
 36 Ser Gly Ala Pro Ala Ala Glu Ser Lys Glu Ile Val Arg Gly Tyr Lys
 37 35 40 45
 39 tgg gct gag tac cat gcg gac atc tac gac aaa gtg tcg ggc gac atg 192
 40 Trp Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met
 41 50 55 60
 43 cag aag caa ggc tgc gac tgt gag tgt ctg ggc ggc ggc cgc atc tcc 240
 44 Gln Lys Gln Gly Cys Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser
 45 65 70 75 80
 47 cac cag agt cag gac aag aag att cac gtg tac ggc tat tcc atg gcc 288
 48 His Gln Ser Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met Ala
 49 85 90 95
 51 tat ggt cct gcc cag cac gcc att tca act gag aaa atc aaa gcc aag 336
 52 Tyr Gly Pro Ala Gln His Ala Ile Ser Thr Glu Lys Ile Lys Ala Lys
 53 100 105 110
 55 tac ccc gac tac gag gtc acc tgg gct aac gac ggc tac 375
 56 Tyr Pro Asp Tyr Glu Val Thr Trp Ala Asn Asp Gly Tyr
 57 115 120 125
 60 <210> SEQ ID NO: 2
 61 <211> LENGTH: 125
 62 <212> TYPE: PRT
 63 <213> ORGANISM: Homo sapiens
 65 <400> SEQUENCE: 2
 66 Met Ala Val Ala Asp Leu Ala Leu Ile Pro Asp Val Asp Ile Asp Ser
 67 1 5 10 15

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69 Asp Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ser Ala Pro Arg
70          20          25          30
72 Ser Gly Ala Pro Ala Ala Glu Ser Lys Glu Ile Val Arg Gly Tyr Lys
73          35          40          45
75 Trp Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met
76          50          55          60
78 Gln Lys Gln Gly Cys Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser
79 65          70          75          80
81 His Gln Ser Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met Ala
82          85          90          95
84 Tyr Gly Pro Ala Gln His Ala Ile Ser Thr Glu Lys Ile Lys Ala Lys
85          100          105          110
87 Tyr Pro Asp Tyr Glu Val Thr Trp Ala Asn Asp Gly Tyr
88          115          120          125

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91 <210> SEQ ID NO: 3

92 <211> LENGTH: 16

93 <212> TYPE: PRT

94 <213> ORGANISM: mammalian

96 <220> FEATURE:

97 <221> NAME/KEY: PEPTIDE

98 <222> LOCATION: (1)..(16)

99 <223> OTHER INFORMATION: conserved mammalian sequence

101 <400> SEQUENCE: 3

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102 Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp
103 1          5          10          15

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106 <210> SEQ ID NO: 4

107 <211> LENGTH: 33

108 <212> TYPE: PRT

109 <213> ORGANISM: mammalian

111 <220> FEATURE:

112 <221> NAME/KEY: PEPTIDE

113 <222> LOCATION: (1)..(33)

114 <223> OTHER INFORMATION: conserved mammalian sequence 2

116 <220> FEATURE:

117 <221> NAME/KEY: SITE

118 <222> LOCATION: (17)

119 <223> OTHER INFORMATION: X = K or R

121 <220> FEATURE:

122 <221> NAME/KEY: SITE

123 <222> LOCATION: (27)

124 <223> OTHER INFORMATION: X = A or G

126 <220> FEATURE:

127 <221> NAME/KEY: SITE

128 <222> LOCATION: (30)

129 <223> OTHER INFORMATION: X = P or R

131 <400> SEQUENCE: 4

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132 Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp
133 1          5          10          15

```

W--> 135 Xaa Lys Ile His Val Tyr Gly Tyr Ser Met Xaa Tyr Gly Xaa Ala Gln

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```

136          20          25          30
138 His
142 <210> SEQ ID NO: 5
143 <211> LENGTH: 44
144 <212> TYPE: PRT
145 <213> ORGANISM: mammalian
147 <220> FEATURE:
148 <221> NAME/KEY: PEPTIDE
149 <222> LOCATION: (1)..(44)
150 <223> OTHER INFORMATION: conserved mammalian sequence 3
152 <400> SEQUENCE: 5
153 Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Asp Met Gln Lys Gln
154   1          5          10          15
156 Gly Cys Asp Cys Glu Cys Leu Gly Gly Arg Ile Ser His Gln Ser
157   20          25          30
159 Gln Asp Lys Lys Ile His Val Tyr Gly Tyr Ser Met
160   35          40
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163 <210> SEQ ID NO: 6
164 <211> LENGTH: 124
165 <212> TYPE: PRT
166 <213> ORGANISM: rabbit
168 <220> FEATURE:
169 <221> NAME/KEY: PEPTIDE
170 <222> LOCATION: (1)..(124)
171 <223> OTHER INFORMATION: rabbit histidine protein phosphatase
173 <400> SEQUENCE: 6
174 Ala Ala Ala Gly Leu Ala Gln Ile Pro Asp Val Asp Ile Asp Ser Asp
175   1          5          10          15
177 Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Ala Ala Pro Pro Ser
178   20          25          30
180 Glu Ala Pro Gly Gly Glu Ser Lys Asp Ile Val Arg Gly Tyr Lys Trp
181   35          40          45
183 Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln
184   50          55          60
186 Lys Lys Gly His Asp Cys Glu Cys Leu Gly Gly Arg Ile Ser His
187   65          70          75          80
189 Gln Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr
190   85          90          95
192 Gly Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Arg Ala Lys Tyr
193   100          105          110
195 Pro Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr
196   115          120
199 <210> SEQ ID NO: 7
200 <211> LENGTH: 123
201 <212> TYPE: PRT
202 <213> ORGANISM: rat
204 <220> FEATURE:
205 <221> NAME/KEY: PEPTIDE
206 <222> LOCATION: (1)..(123)

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207 <223> OTHER INFORMATION: rat histidine protein phosphatase

209 <400> SEQUENCE: 7

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210 Asn Gly Leu Asn Thr Thr Arg Gly Lys Gly Ser Ser Pro Leu Gly Lys
211 1 5 10 15
213 Asp His Gln Glu Leu Glu Leu Thr Pro Tyr Pro Ala Val Lys Phe
214 20 25 30
216 Ser Val Gly Pro Thr Arg Ala Thr Arg Ala Tyr Pro Glu Ala Thr Leu
217 35 40 45
219 Pro Thr Ser Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln Lys
220 50 55 60
222 Asn Gly Tyr Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His Gln
223 65 70 75 80
225 Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr Gly
226 85 90 95
228 Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Lys Ala Lys Tyr Pro
229 100 105 110
231 Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr
232 115 120

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235 <210> SEQ ID NO: 8

236 <211> LENGTH: 124

237 <212> TYPE: PRT

238 <213> ORGANISM: mouse

240 <220> FEATURE:

241 <221> NAME/KEY: PEPTIDE

242 <222> LOCATION: (1)..(124)

243 <223> OTHER INFORMATION: mouse histidine protein phosphatase

245 <400> SEQUENCE: 8

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246 Met Ala Ala Asp Leu Gly Gln Ile Pro Asp Val Asp Ile Asp Ser Asp
247 1 5 10 15
249 Gly Val Phe Lys Tyr Val Leu Ile Arg Val His Leu Ala Glu Pro Ser
250 20 25 30
252 Gly Asp Pro Ala Lys Glu Cys Lys Glu Ile Val Arg Gly Tyr Lys Trp
253 35 40 45
255 Ala Glu Tyr His Ala Asp Ile Tyr Asp Lys Val Ser Gly Glu Leu Gln
256 50 55 60
258 Arg Asn Gly Tyr Asp Cys Glu Cys Leu Gly Gly Gly Arg Ile Ser His
259 65 70 75 80
261 Gln Ser Gln Asp Arg Lys Ile His Val Tyr Gly Tyr Ser Met Gly Tyr
262 85 90 95
264 Gly Arg Ala Gln His Ser Val Ser Thr Glu Lys Ile Lys Ala Lys Tyr
265 100 105 110
267 Pro Asp Tyr Glu Val Thr Trp Ala Asp Asp Gly Tyr
268 115 120

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271 <210> SEQ ID NO: 9

272 <211> LENGTH: 16

273 <212> TYPE: PRT

274 <213> ORGANISM: Artificial Sequence

276 <220> FEATURE:

277 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide for

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```

278      generating an antibody directed against histidine
279      protein phosphatase
281 <400> SEQUENCE: 9
282 Gln Ile Pro Asp Val Asp Ile Asp Ser Asp Gly Val Phe Lys Tyr Val
283   1           5           10           15
286 <210> SEQ ID NO: 10
287 <211> LENGTH: 14
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide for
293      generating an antibody directed against histidine
294      protein phosphatase
296 <400> SEQUENCE: 10
297 Cys Leu Gly Gly Gly Arg Ile Ser His Gln Ser Gln Asp Lys
298   1           5           10
301 <210> SEQ ID NO: 11
302 <211> LENGTH: 14
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide for
308      generating an antibody directed against histidine
309      protein phosphatase
311 <400> SEQUENCE: 11
312 Cys Thr Glu Lys Ile Lys Ala Lys Tyr Pro Asp Tyr Glu Val
313   1           5           10

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/914,831

DATE: 09/20/2001

TIME: 12:46:04

Input Set : A:\Sequence list.txt

Output Set: N:\CRF3\09202001\I914831.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4